

**IN THE CLAIMS:**

*Please amend the claims as follows:*

1. *(currently amended)* A device comprising:

~~an optical storage medium drive; (81) and at least one access unit (83) for reading out data from and writing data to~~

~~an optical storage medium (82) comprising a plurality of data tracks; (70), said device comprising:~~

~~at least one access unit for reading out data from and writing data to said optical storage medium;~~

~~at least one light source (84) arranged to produce at least one first light beam (21, 31) and at least one second light beam (22, 32);~~

~~transmitting means (85) optics arranged to transmit and guide said first light beam and said second light beam towards said data tracks of the optical storage medium; and~~

~~detecting means (86) a detector arranged to detect light beams that are reflected (33) from the surface of the optical storage medium, characterised in that wherein~~

- ~~said access unit (10, 50, 83) is arranged to pivot on one end at a pivot point in order to move three-dimensionally in relation to the pivot point (101),~~
- ~~said transmitting means (14, 15, 16, 85) optics and said detecting means (17, 18, 86) detector are arranged to move in accordance with the movement of said access unit,~~
- ~~said transmitting means (14, 15, 16, 85) optics are arranged to guide said first light beam transversal towards data tracks of the optical storage medium in accordance with the movement of said access unit, and~~
- ~~said detecting means (17, 18, 86) a detector is arranged to receive the reflected beams of said first light beam or said second light beam from said data tracks of the optical storage medium in order to control the movement of said access unit.~~

2. *(currently amended)* A device according to claim 1, ~~characterised in thatwherein~~ said transmitting means (14, 15, 16, 85) ~~optics~~ are arranged to guide said first light beam and said second light beam transversal towards data tracks of the optical storage medium in accordance with the movement of said access unit.
3. *(currently amended)* A device according to claim 1, ~~characterised in thatwherein~~ said access unit (10, 50, 83) is arranged to be movable to a position, in which said first light beam (21, 31) and said second light beam (22, 32) transmitted from said transmitting means (14, 15, 16, 85) ~~optics~~ towards said data tracks of the optical storage medium (11, 82) form a first point (29a) and a second point (29b) on said data tracks of the optical storage medium (11) where the reflected light beams are detected to be in focus and on track by said detecting means ~~detector~~ (17, 18, 86).
4. *(currently amended)* A device according to claim 3, ~~characterised in thatwherein~~ said first point is arranged to be located in a different location than said second point on said data tracks of the optical storage medium.
5. *(currently amended)* A device according to claim 3, ~~characterised in thatwherein~~ said first point is arranged to be located slightly ahead of said second point on said data tracks of the optical storage medium.
6. *(currently amended)* A device according to claim 3, ~~characterised in thatwherein~~ said first point and said second point are arranged to be located in a same intersection point (29) on the track of the optical storage medium.
7. *(currently amended)* A device according to claim 1, ~~characterised in thatwherein~~ said transmitting means ~~optics~~ are arranged to guide said first light beam transversal towards said data tracks of the optical storage medium, and said second light beam perpendicular to said data tracks of the optical storage medium.

8. (*currently amended*) A device according to claim 7, ~~characterised in thatwherein~~ said first light beam is arranged to read out data from said data tracks of the optical storage medium and said second light beam is arranged to write data to said data tracks of the optical storage medium.

9. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ at least one light source (12) is arranged to be located at or substantial proximity of the pivot point (101) of said access unit (10).

10. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ said transmitting means (14, 15, 16)~~optics~~ comprise at least one first optical component (15, 15a, 24, 25, 36) for bending said first light beam and said second light beam towards said data tracks of the optical storage medium (11), and at least one second optical component (16, 27, 28, 35) for bending and focussing said first light beam and said second light beam transversal towards said data tracks of the optical storage medium.

11. (*currently amended*) A device according to claim 10, ~~characterised in thatwherein~~ said transmitting means (14, 15, 16)~~optics~~ further comprise collimating optics (14, 14a) for said light source (12), splitting optics for splitting the emitted light into multiple light beams and focusing optics in connection with said second optical component (16, 27, 28).

12. (*currently amended*) A device according to claim 10, ~~characterised in thatwherein~~ said first optical component and said second optical component are arranged to be a single lens (35) for bending and focussing said first light beam transversal towards said data tracks of the optical storage medium and said second light beam perpendicular to said data tracks of the optical storage medium.

13. (*currently amended*) A device according to claim 10, ~~characterised in thatwherein~~ said first light beam and said second light beam are arranged to have opposite polarizations.

14. (*currently amended*) A device according to claim 10, ~~characterised in thatwherein~~ said first light beam and said second light beam are arranged to have different wavelengths.

15. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ said first light beam is arranged to be produced by a first laser source (51) and be transmitted by ~~a first transmitting means~~ (56)light beam path; said second light beam is arranged to be produced by a second laser source (52) and be transmitted by ~~a second transmitting means~~ (58)light beam path; and said first laser source and said second laser source are arranged to be synchronized by ~~synchronizing means~~ (55)a synchronizer.

16. (*currently amended*) A device according to claim 15, ~~characterised in thatwherein~~ said first transmitting means (56)light beam path and said second transmitting means (58)light beam path are arranged to use the same first and second optical components (15, 16).

17. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ said detecting means(17, 18) comprise detector comprises at least one detector element (18) for detecting the reflected light beams of said first light beam or said second light beam, and a third optical component (17) for bending and focussing said reflected light beams of said first or second light beam.

18. (*currently amended*) A device according to claim 17, ~~characterised in thatwherein~~ said detecting meansdetector (17, 18) further comprisecomprises a fourth optical component (15b) for bending the reflected light beams of said first light beam or said second light beam towards said detector element (18), focussing

optics (14b) in front of said detector element and splitting optics (17b) for splitting said reflected light beams of said first light beam or said second light beam into multiple light beams.

19. (*currently amended*) A device according to claim 17, **characterised in thatwherein** said detector element (18) comprises at least two detector surfaces (18a, 18b, 18c, 18d) for detecting the focusing signal and tracking signal of the reflected light beams (1a, 1b, 1c) of said first light beam or said second light beam.

20. (*currently amended*) A device according to claim 17, **characterised in thatwherein** said detector element (18) is arranged to detect by said detector surface (18a, 18b, 18c, 18d) of said detector element at least one focusing signal and at least one tracking signal of the reflected beams (1a, 1b, 1c) of said first light beam or said second light beam received from the surface of the optical storage medium (11), and said detector element is arranged to control the movement of said access unit (10) according to said focusing signal and said tracking signal detected by said detector surface to keep said first light beam and said second light beam in focus and on track.

21. (*currently amended*) A device according to claim 17, **characterised in thatwherein** said detector element (18) is arranged to detect by said detector surface (18a, 18b, 18c, 18d) of said detector element identifying a change in the intensity distribution of at least one focusing signal and at least one tracking signal of the reflected beams of said first light beam or said second light beam received from the surface of the optical storage medium, and said detector element is arranged to control the movement of said access unit by following said change in the intensity distribution to keep said first light beam and said second light beam in focus and on track.

22. (*currently amended*) A device according to claim 18, ~~characterised in thatwherein~~ said focussing optics (17, 28) in front of said detector element (18, 26) comprises diffractive optical elements (27).

23. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ said transmitting means (14, 15, 16) ~~optics~~ and said detecting means~~detector~~ (17, 18) further comprise a waveguide or lightguide (13) arranged to transmit said first and second light beam and/or said reflected light beams of said first light beam or said second light beam along said access unit.

24. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ said access unit (10, 50, 83) is an arm unit (41).

25. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ the device comprises a first access unit for reading out data from the optical storage medium, and a second access unit for writing data to the optical storage medium, wherein said first access unit and said second access unit is one of the following: an arm unit (41), a sledge unit (45) or any combination of an arm and sledge unit (41, 42, 45).

26. (*currently amended*) A device according to claim 1, ~~characterised in thatwherein~~ said device (80) is a communication device.

27. (*currently amended*) A method for reading out data from and writing data to an optical storage medium ~~comprising: in a device comprising at least one access unit, the method comprising steps, in which: at least one optical storage medium comprising a plurality of data tracks, stores data; an optical storage medium driver controls operation of the device; at least one light source produces~~  
~~producing at least one first light beam and at least one second light beam (901)~~  
~~by at least one light source;~~  
~~transmitting and guiding said first light beam and said second light beam are~~

~~transmitted and guided towards said data tracks of the optical storage medium (907); and~~

~~detecting the light beams that are reflected from thea surface of the optical storage medium, are detected, characterised in thatwherein it further comprises steps, in which:~~

- ~~said first light beam and said second light beam are guided transversal towards said data tracks of the optical storage medium (909) three-dimensionally in accordance with movement of an access unit;~~
- ~~the reflected beams of said first light beam or said second light beam from said data tracks of the optical storage medium are received (911, 913) three-dimensionally in accordance with the movement of said access unit; and~~
- ~~saidan access unit is moved three-dimensionally in relation to a pivot point on one end to focus and track said first and second light beams (915, 916, 917, 919, 920).~~

28. (*currently amended*) A method according to claim 27, ~~characterised in that it comprises a step, in whichwherein~~ said access unit is controllable to a position, in which said first light beam and said second light beam transmitted and the reflected light beams of said first light beam or said second light beam are detected ~~(913)~~, to form at least one first focussed beam and at least one second focussed beam on said data tracks of the optical storage medium on the basis of said first light beam ~~(915)~~, said second light beam and said reflected light beam of said first light beam or said second light beam.

29. (*currently amended*) A method according to claim 28, ~~characterised in that it comprises steps, in whichwherein~~ said first focussed beam forms at least one first point ~~(29a)~~ and said second focussed beam at least one second point ~~(29b)~~ on said data tracks of the optical storage medium ~~(915)~~.

30. (*currently amended*) A method according to claim 29, ~~characterised in that it comprises a step, in which~~wherein said first point is located in a different location than said second point on said tracks of the optical storage medium.

31. (*currently amended*) A method according to claim 29, ~~characterised in that it comprises a step, in which~~wherein said first point is located slightly ahead of said second point on said tracks of the optical storage medium.

32. (*currently amended*) A method according to claim 29, ~~characterised in that it comprises a step, in which~~wherein said first point and said second point are located in a same intersection point (29) on the track of the optical storage medium.

33. (*currently amended*) A method according to claim 27, ~~characterised in that it comprises steps (909), in which~~wherein said first light beam is transmitted and guided transversal towards said data tracks of the optical storage medium, and said second light beam perpendicular to said data tracks of the optical storage medium.

34. (*currently amended*) A method according to claim 33, ~~characterised in that it comprises steps, in which~~wherein said first light beam reads out data from and said second light beam writes data to said data tracks of the optical storage medium.

35. (*currently amended*) A method according to claim 27, ~~characterised in that it comprises steps (909), in which~~wherein at least one first optical component bends said first light beam and said second light beam towards said data tracks of the optical storage medium, and at least one second optical component bends and focuses said first light beam and second light beam transversal towards said data tracks of the optical storage medium.

36. (*currently amended*) A method according to claim 35, ~~characterised in that it further comprises steps, in which~~wherein collimating optics collimates said light source, splitting optics splits the emitted light into multiple light beams (905) and

focusing optics in connection with said second component focuses light beams (915).

37. (*currently amended*) A method according to claim 35, ~~characterised in that it comprises steps (909), in which wherein~~ said first optical component and second optical component is a single lens that bends and focuses said first light beam transversal towards said data tracks of the optical storage medium and said second light beam perpendicular to said data tracks of the optical storage medium.

38. (*currently amended*) A method according to claim 35, ~~characterised in that~~wherein said first light beam and said second light beam have opposite polarizations.

39. (*currently amended*) A method according to claim 35, ~~characterised in that~~wherein said first light beam and said second light beam have different wavelengths.

40. (*currently amended*) A method according to claim 27, wherein ~~the method comprises steps, in which~~ a first laser source produces said first light beam and a second laser source produces said second light beam-(901); and said first laser source and said second laser source are synchronized-(903), ~~characterised in that a synchronization (903) comprises steps, in which~~wherein:

- a first laser source and a second laser source are initialised separately,
- said first laser source turns on-(111),
- said first laser source emits said first light beam and a first point is located for read/write operation-(113),
- a location of said first point is analysed-(115, 117),
- a focusing and tracking of said first point is analysed-(116, 118),
- said second laser source turns on-(119),
- said second laser source emits said second light beam and a second point is located for read/write operation-(120, 121), and

- said second laser source turns off after said read/write operation-(123).

41. (*currently amended*) A method according to claim 40, ~~characterised in that a synchronization comprises steps, in whichwherein~~ said second laser source turns on causing said first laser source to go in an interrupt mode for a predetermined time period to said first point-(139), and said first laser source continues read/write operation from said first point after the predetermined time period and said second laser source goes in an interrupt mode-(141, 143).

42. (*currently amended*) A method according to claim 27, ~~characterised in that it comprises steps (915, 917), in which~~wherein at least one detector element detects the reflected light beams of said first light beam or said second light beam and a third optical component bends and focuses said reflected light beams of said first light beam or said second light beam.

43. (*currently amended*) A method according to claim 42, ~~characterised in that it further comprises steps (915, 917), in which~~wherein a fourth optical component bends said reflected light beams of said first light beam or said second light beam towards said detector element, focussing optics in front of said detector element focuses and splitting optics splits said reflected light beams of said first light beam or said second light beam into multiple light beams.

44. (*currently amended*) A method according to claim 42, ~~characterised in that~~wherein said detector element comprises at least two detector surfaces for detecting the focusing signal and tracking signal of the reflected light beams of said first light beam or said second light beam.

45. (*currently amended*) A method according to claim 42, ~~characterised in that~~wherein said detector element detects by said detector surface of said detector element at least one focusing signal and at least one tracking signal of the reflected beams of said first light beam or said second light beam received from the surface of

the optical storage medium, and said detector element controls the movement of said access unit according to said focusing signal and said tracking signal detected by said detector surface to keep said first light beam and said second light beam in focus and on track.

46. (*currently amended*) A method according to claim 42, ~~characterised in that~~wherein said detector element detects by said detector surface of said detector element identifying a change in the intensity distribution of at least one focusing signal and at least one tracking signal of the reflected beams of said first light beam or said second light beam received from the surface of the optical storage medium, and said detector element controls the movement of said access unit by following said change in the intensity distribution to keep said first light beam and said second light beam in focus and on track.

47. (*currently amended*) A method according to claim 27, ~~characterised in that~~wherein said access unit is an arm unit.

48. (*currently amended*) A method according to claim 27, ~~characterised in that it comprises steps, in which~~wherein a first access unit reads out data from the optical storage medium, and a second access unit writes data to the optical storage medium, wherein said first and said second access unit is one of the following: an arm unit, a sledge unit or any combination of an arm and sledge unit.

49. (*currently amended*) A method according to claim 27, ~~characterised in that~~wherein said device is a communication device.